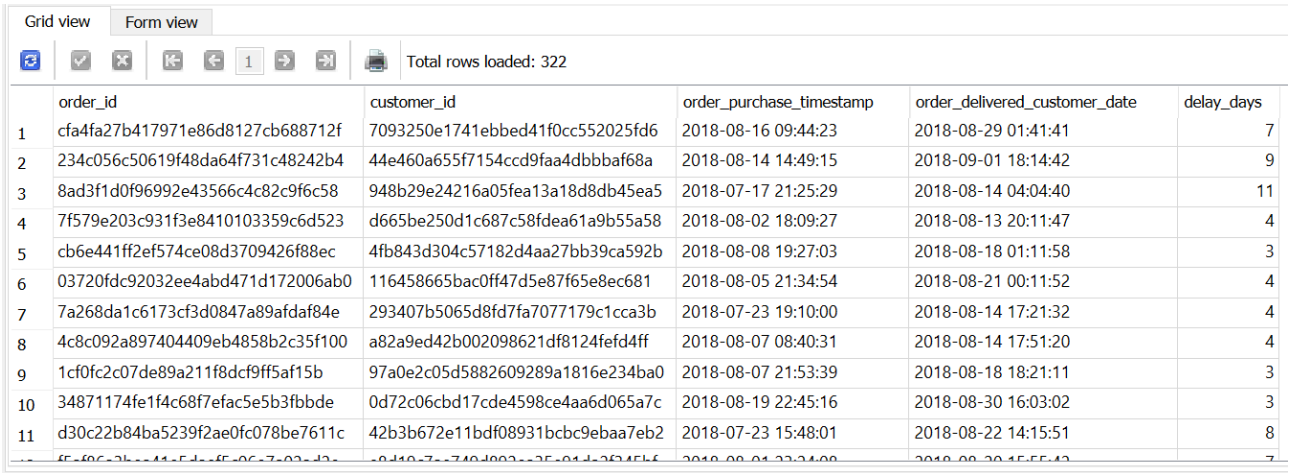
Script des 4 requêtes SQL

Requête 1 :

● En excluant les commandes annulées, quelles sont les commandes récentes de moins de 3 mois que les clients ont reçues avec au moins 3 jours de retard

Script SQL:

```
WITH max_date AS (
    SELECT MAX(order_purchase_timestamp) AS last_order_date
    FROM orders
)
SELECT
    o.order_id,
    o.customer_id,
    o.order_purchase_timestamp,
    o.order_delivered_customer_date,
    CAST(julianday(o.order_delivered_customer_date) - julianday(o.order_estimated_delivery_date)
AS INTEGER) AS delay_days
FROM
    orders o,
    max_date m
WHERE
    o.order_status != 'canceled'
    AND o.order_delivered_customer_date > o.order_estimated_delivery_date
    AND o.order_delivered_customer_date IS NOT NULL
    AND o.order_purchase_timestamp >= date(m.last_order_date, '-3 months')
    AND CAST(julianday(o.order_delivered_customer_date) -
julianday(o.order_estimated_delivery_date) AS INTEGER) >= 3;
```



Grid view | Form view

Total rows loaded: 322

	order_id	customer_id	order_purchase_timestamp	order_delivered_customer_date	delay_days
1	cfa4fa27b417971e86d8127cb688712f	7093250e1741ebbed41f0cc552025fd6	2018-08-16 09:44:23	2018-08-29 01:41:41	7
2	234c056c50619f48da64f731c48242b4	44e460a655f7154ccd9faa4dbbbaf68a	2018-08-14 14:49:15	2018-09-01 18:14:42	9
3	8ad3f1d0f96992e43566c4c82c9f6c58	948b29e24216a05fea13a18d8db45ea5	2018-07-17 21:25:29	2018-08-14 04:04:40	11
4	7f579e203c931f3e8410103359c6d523	d665be250d1c687c58fdea61a9b55a58	2018-08-02 18:09:27	2018-08-13 20:11:47	4
5	cb6e441ff2ef574ce08d3709426f88ec	4fb843d304c57182d4aa27bb39ca592b	2018-08-08 19:27:03	2018-08-18 01:11:58	3
6	03720fdc92032ee4abd471d172006ab0	116458665bac0ff47d5e87f65e8ec681	2018-08-05 21:34:54	2018-08-21 00:11:52	4
7	7a268da1c6173cf3d0847a89afdaf84e	293407b5065d8fd7fa7077179c1cca3b	2018-07-23 19:10:00	2018-08-14 17:21:32	4
8	4c8c092a897404409eb4858b2c35f100	a82a9ed42b002098621df8124fefd4ff	2018-08-07 08:40:31	2018-08-14 17:51:20	4
9	1cf0fc2c07de89a211f8dcf9ff5af15b	97a0e2c05d5882609289a1816e234ba0	2018-08-07 21:53:39	2018-08-18 18:21:11	3
10	34871174fe1f4c68f7efac5e5b3fbbde	0d72c06cbd17cde4598ce4aa6d065a7c	2018-08-19 22:45:16	2018-08-30 16:03:02	3
11	d30c22b84ba5239f2ae0fc078be7611c	42b3b672e11bdf08931bcbc9ebaa7eb2	2018-07-23 15:48:01	2018-08-22 14:15:51	8

Requête 2 :

Qui sont les vendeurs ayant généré un chiffre d'affaires de plus de 100 000Real sur des commandeslivrées via Olist ?

```
WITH max_date AS (
    SELECT MAX(order_purchase_timestamp) AS last_order_date
    FROM orders
)
SELECT
    s.seller_id,
    s.seller_city,
    s.seller_state,
    SUM(oi.price) AS total_revenue
FROM
    sellers s
JOIN
    order_items oi ON s.seller_id = oi.seller_id
JOIN
    orders o ON oi.order_id = o.order_id
JOIN
    max_date m ON 1=1  -- Join avec max_date pour accéder à la date maximale
WHERE
    o.order_status = 'delivered'
    AND o.order_purchase_timestamp <= m.last_order_date
GROUP BY
    s.seller_id,
    s.seller_city,
    s.seller_state
HAVING
    SUM(oi.price) > 100000;
```

Grid view | Form view

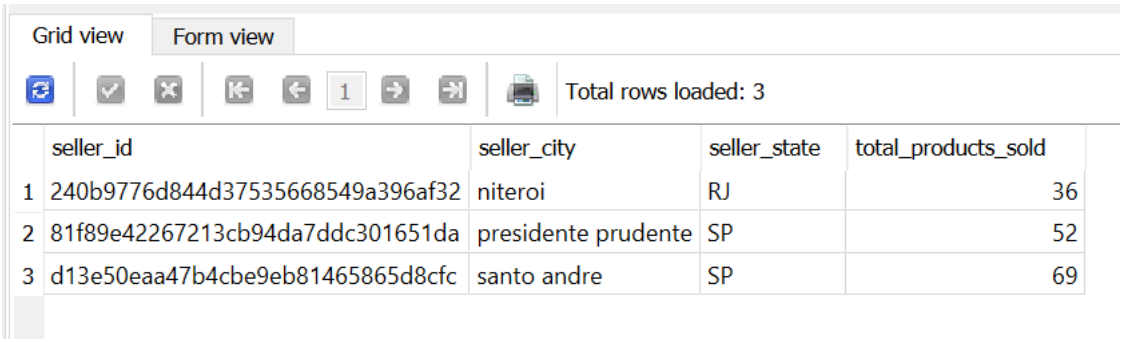
Total rows loaded: 17

	seller_id	seller_city	seller_state	price
1	7e93a43ef30c4f03f38b393420bc753a	barueri	SP	165981.49000000002
2	7d13fca15225358621be4086e1eb0964	ribeirao preto	SP	112436.17999999983
3	955fee9216a65b617aa5c0531780ce60	sao paulo	SP	131836.70999999915
4	1f50f920176fa81dab994f9023523100	sao jose do rio preto	SP	106655.7099999974
5	fa1c13f2614d7b5c4749cbc52fecda94	sumare	SP	190917.13999999838
6	6560211a19b47992c3666cc44a7e94c0	sao paulo	SP	120702.83000000003
7	53243585a1d6dc2643021fd1853d8905	lauro de freitas	BA	217940.43999999968
8	7c67e1448b00f6e969d365cea6b010ab	itaquaquecetuba	SP	186570.04999999996
9	cc419e0650a3c5ba77189a1882b7556a	santo andre	SP	101090.96000000235
10	da8622b14eb17ae2831f4ac5b9dab84a	piracicaba	SP	159816.86999999534
11	620c87c171fb2a6dd6e8bb4dec959fc6	petropolis	RJ	112461.49999999844
12	7a67c85e85bb2ce8582c35f2203ad736	sao paulo	SP	139658.69000000184

Requête 3:

Qui sont les nouveaux vendeurs (moins de 3 mois d'ancienneté) qui sont déjà très engagés avec la plateforme (ayant déjà vendu plus de 30 produits) ?

```
WITH recent_sellers AS (
    SELECT
        s.seller_id,
        s.seller_city,
        s.seller_state,
        s.seller_since
    FROM
        sellers s
    JOIN
        (SELECT MAX(order_purchase_timestamp) AS last_order_date FROM orders) max_date
    WHERE
        s.seller_since >= DATE(max_date.last_order_date, '-3 months')
)
SELECT
    rs.seller_id,
    rs.seller_city,
    rs.seller_state,
    COUNT(oi.order_id) AS total_products_sold
FROM
    recent_sellers rs
JOIN
    order_items oi ON rs.seller_id = oi.seller_id
GROUP BY
    rs.seller_id,
    rs.seller_city,
    rs.seller_state
HAVING
    COUNT(oi.order_id) > 30;
```

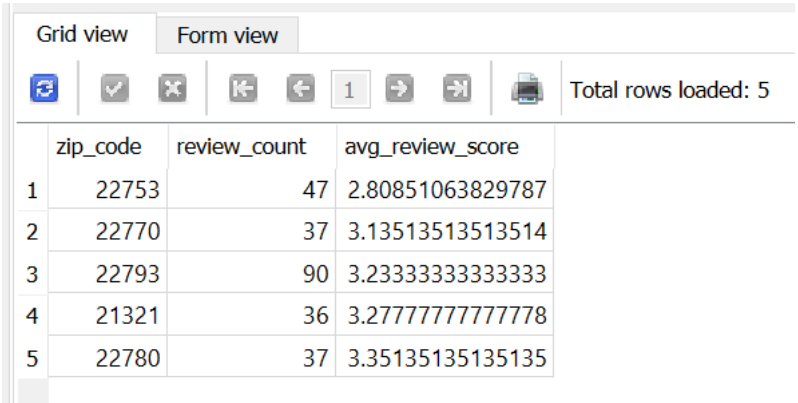


	seller_id	seller_city	seller_state	total_products_sold
1	240b9776d844d37535668549a396af32	niteroi	RJ	36
2	81f89e42267213cb94da7ddc301651da	presidente prudente	SP	52
3	d13e50eaa47b4cbe9eb81465865d8cfc	santo andre	SP	69

Requête 4:

Question : Quels sont les 5 codes postaux, enregistrant plus de 30 reviews, avec le pire review score moyen sur les 12 derniers mois ?

```
WITH recent_reviews AS (
    SELECT
        r.review_score,
        o.customer_id,
        o.order_id,
        c.customer_zip_code_prefix
    FROM
        order_reviews r
    JOIN
        orders o ON r.order_id = o.order_id
    JOIN
        customers c ON o.customer_id = c.customer_id
    JOIN
        (SELECT MAX(order_purchase_timestamp) AS last_order_date FROM orders) max_date
    WHERE
        o.order_purchase_timestamp >= DATE(max_date.last_order_date, '-12 months')
)
SELECT
    rr.customer_zip_code_prefix AS zip_code,
    COUNT(rr.review_score) AS review_count,
    AVG(rr.review_score) AS avg_review_score
FROM
    recent_reviews rr
GROUP BY
    rr.customer_zip_code_prefix
HAVING
    COUNT(rr.review_score) > 30
ORDER BY
    avg_review_score ASC
LIMIT 5;
```



	zip_code	review_count	avg_review_score
1	22753	47	2.80851063829787
2	22770	37	3.13513513513514
3	22793	90	3.23333333333333
4	21321	36	3.27777777777778
5	22780	37	3.35135135135135